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ABSTRACT OF THE DISCLOSURE

A YIG film formed on a GGG substrate is separated by a stepwise groove for preparing YIG films having different intervals between end surfaces, and two YIG films resonating magnetostatic waves between the end surfaces having different intervals are coupled with each other for forming a resonator. Alternatively, a GGG substrate is arranged on a grounded substrate for arranging a YIG film on the GGG substrate, arranging ferromagnetic layers on both longitudinal ends of the YIG film on the main surface of the YIG film respectively, applying a dc magnetic field along the longitudinal direction of the YIG film, inputting an input signal from an input electrode arranged on the YIG film for propagating a magnetostatic wave through the YIG film and obtaining an output signal from an output electrode arranged on the YIG film. A band-pass filter and a level detector detect insertion loss on low- and high-frequency side edge portions of the pass band of the magnetostatic wave device for controlling the value of a current supplied to an auxiliary magnetic field application film by a controller in response to change of the detected insertion loss and adjusting the strength of an auxiliary magnetic field generated from the auxiliary magnetic field application film to correct drift of the pass band of the magnetostatic wave device resulting from temperature change or the like.

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